

ABSTRACT

A welded joint of a tempered martensitic heat resisting steel includes a fine-grained heat affected zone of weldment of a heat resisting steel having a tempered martensite structure which 5 exhibits a creep strength of 90% or more of the creep strength of the base metal thereof. The welded joint is inhibited in the formation of the fine-grained HAZ exhibiting a significantly reduced creep strength.